## AMENDMENTS TO THE CLAIMS

1. (Original): A method for routing data packets to multiple partitions within a single end node, comprising:

assigning a range of local identification addresses (LlDs) to a channel adapter port in an end node; and

assigning bits within the local identification addresses to specify which of several partitions within the end node is being addressed.

- 2. (Original): The method of claim 1, wherein the bits are lower order bits.
- 3. (Original): The method according to claim 1, wherein the channel adapter port is connected to a system area network.
- 4. (Original): The method according to claim 1, wherein: the network contains two raised to the N power end nodes, switches, and routers; and the number of bits in a local identification address equals N.
- 5. (Original): The method according to claim 2, wherein the lower order bits assigned to partitions are designated by a local identification mask control (LMC) field.
- 6. (Original): The method according to claim 5, wherein the local identification mask control can be any number of bits.
- 7. (Original): The method according to claim 5, wherein a number of lower order bits assigned to addressing within a port is up to two raised to the local identification mask control power.
- 8. (Original): The method according to claim 7, wherein the different local identification addresses of a port identify different partitions within the end node.

9. (Original): A computer program product in a computer readable medium for use in a data process system for routing data packets to multiple partitions within a single end node, the computer program product comprising:

instructions for assigning a local identification address to a channel adapter port in an end node; and

instructions for assigning bits within the local identification address to a specific partition within the end node.

- 10. (Original): The computer program product of claim 9, wherein the bits are lower order bits.
- 11. (Original): The computer program product according to claim 9, further comprising instructions for connecting the channel adapter port to a system area network.
- 12. (Original): The computer program product according to claim 9, wherein: if the network contains two raised to the N power end nodes, switches, and routers;

the number of bits in a local identification address equals N.

- 13. (Original): The computer program product according to claim 10, wherein the lower order bits assigned to partitions are designated by a local identification mask control (LMC) field.
- 14. (Original): The computer program product according to claim 13, wherein the local identification mask control can be any number of bits.
- 15. (Original): The computer program product according to claim 13, wherein the number of lower order bits assigned to addressing within a port is up to two raised to the local identification mask control power.

- 16. (Original): The computer program product according to claim 15, wherein the different local identification addresses of a port identify different partitions within the end node.
- (Original): A system for routing data packets to multiple partitions within a single end node, comprising:

means for assigning a local identification address (LID) to a channel adapter port in a network end node; and

means for assigning lower order bits within the local identification addresses to a specific partition within the end node.

- 18. (Original): The system according to claim 17, wherein the channel adapter port is connected to a system area network.
- 19. (Original): The method according to claim 17, wherein: the network contains two raised to the N power end nodes, switches, and routers; and the number of bits in a local identification address equals N.
- 20. (Original): The system according to claim 17, wherein the lower order bits assigned to partitions are designated by a local identification mask control (LMC) field.
- 21. (Original): The method according to claim 20, wherein the LMC can be any number of bits.
- 22. (Original): The system according to claim 20, wherein the number of lower order bits assign to addressing within a port is up to two raised to the local identification mask control power.
- 23. (Original): The system according to claim 22, wherein the different local identifier addresses of a port identify different partitions within the end node.